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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,843	03/26/2004	Edward Herbert		2842

23729 7590 11/08/2005

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EXAMINER

MAI, ANH T

ART UNIT PAPER NUMBER

2832

DATE MAILED: 11/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

Office Action Summary	Application No. 10/708,843	Applicant(s) HERBERT, EDWARD	
	Examiner Anh T. Mai	Art Unit 2832	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6 is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☒ Claim(s) 4 and 5 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeno et al. [6000128] in view of Smith [6087922] and further in view of Olsen et al. [3223955].

Umeno discloses a plurality of predetermined patterns metal sheet windings 4; a plurality of sheet insulators 1a,1b,1c; the metal sheets being stacked in layers alternately with insulator sheets so that each one of the plurality of sheet metal windings is electrically isolated from all of the remainder of the sheet metal windings [figure 7; col 7, lines 1-10].

Umeno does not disclose the U-shaped pattern of the winding.

Smith, however, discloses U-shaped patterned of the secondary windings 28 [figures 3-4].

Because Umeno and Smith are both from the same field of endeavor, the U-shaped pattern of the winding as disclosed by Smith would have been recognized as pertinent art of Umeno.

It would have been obvious, therefore, at the time the invention was made to a person having skill in the art to construct the flat windings as disclosed by Umeno, with the U shaped pattern, as disclosed by Smith for the purpose of facilitating the magnetic coupling of the windings [abstract].

Umeno in view of Smith discloses the claimed invention except for the U-shaped sheet windings having stepped terminations to expose surface electrical contact area. Olsen discloses a core of plurality flat laminations 30 having stair case shape termination [figures 2].

It would have been obvious, therefore, at the time the invention was made to a person having skill in the art to construct the flat U shaped pattern windings as disclosed by Umeno in view of Smith, with the stepped terminations, as disclosed by Olsen for providing the offset joins which hold the remainder of the core [col 5, lines 5-10 and figures 1-2].

With respect to claim 3, Olsen discloses the U shaped pattern core laminates are inter-nested [figures 1-2].

Allowable Subject Matter

3. Claims 4-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 4 recites, inter alia, *at least one element of a matrix transformer through which the laminated primary winding has been terminated and interconnected using terminations and interconnections from and between the exposed surface electrical contact areas of the laminated primary winding so as to make a matrix transformer.*

4. Claim 6 is allowed.

Claim 6 recites, inter alia, *the first and second laminated subassemblies further having complementary successively stepped exposed electrical contact areas which can be mated to connect the first laminated subassembly to the second laminated subassembly within the matrix transformer.*

Art Unit: 2832

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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110405



ANH MAI
PRIMARY EXAMINER